

## ABSTRACT

A pulse signal generator comprising a magnetic element able (1) to cause a large Barkhausen jump; a detection member (2) for detecting a magnetic change in the magnetic element to generate a pulse signal; and a pair of magnetic field sources (3, 4, 6, and 7) provided in parallel to each other on both sides of the magnetic element such that their poles (3A, 4A) are opposed to each other so that when an object (5A) advances from one of opposite poles to the other of the magnetic field sources, a magnetic field applied to the magnetic element changes, causing a large Barkhausen jump in the magnetic element, thus causing the detection member to generate a pulse signal.

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